

Date: Wed, 16 Jun 93 14:43:14 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #737
To: Info-Hams

Info-Hams Digest Wed, 16 Jun 93 Volume 93 : Issue 737

Today's Topics:

- 6M multi-hop Es to the US (2 msgs)
 - Accessing Callsign Server
 - Advice needed on an ICOM32AT
 - AM Broadcast Radio Antenna
- Apollo & hams (was Re: "If you believe they put a man on the moon")
 - Broadcast IDs
 - Entry Level HF Rigs
 - How do you view a .TAR file
 - Info-Hams Digest V93 #727
- Naval Observatory (was WWV on telephone)
 - Need tubes for Nazi field radio
 - only *5* weeks to get license
 - Surplus in Seattle

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 16 Jun 1993 17:06:06 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!noc.near.net!
news.bbn.com!bbn.com!levin@network.UCSD.EDU
Subject: 6M multi-hop Es to the US
To: info-hams@ucsd.edu

pascoe@rocky.tntn.gtegsc.com (Dave Pascoe) writes:

|popovich@cyclades.ma30.bull.com wrote:

|: BTW, can somebody tell me how one might find out the last 2 characters
|: of one's own grid square? Perhaps this is an FAQ, but although I've
|: seen several ARRL publications with coarse-grained maps (providing the
|: first 4 characters), I've never seen anything that can tell me the
|: @#\$\$%* last 2, so I try to estimate where I am in that big square and
|: make a wild-assed guess. There's got to be a better way that doesn't
|: involve PC software (I don't own a PC).

|Following is the "theory".
|Courtesy of David, K2LMG

[complete description of the theory of the grid system omitted]

While that is a complete description of how the grid squares and
subsquares are laid out, a more practical chart may be found in my
favorite reference for this type of thing, THE ARRL OPERATING MANUAL.
Look in the chapter on VHF/UHF operating for a full page devoted to
the subject. It includes the usual coarse map plus cookbook tables to
allow you to determine your exact grid subsquare given your latitude
and longitude. It requires that you know this to the nearest minute
(or half-minute) which may require you to refer to a USGS topo map or
equivalent, since the 2.5' division in longitude is only about two and
a half miles.

/JBL

=

Nets: levin@bbn.com		"There were sweetheart roses on Yancey Wilmerding's
POTS: (617)873-3463		bureau that morning. Wide-eyed and distraught, she
KD10N (@KB4N.NH.USA)		stood with all her faculties rooted to the floor."
		-- S. J. Perelman

Date: 16 Jun 1993 16:20:26 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!math.ohio-state.edu!
howland.reston.ans.net!europa.eng.gtefsd.com!rocky.tntn.gtegsc.com!not-for-
mail@network.UCSD.EDU
Subject: 6M multi-hop Es to the US
To: info-hams@ucsd.edu

popovich@cyclades.ma30.bull.com wrote:

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: @#\$\$%* last 2, so I try to estimate where I am in that big square and
: make a wild-assed guess. There's got to be a better way that doesn't

: involve PC software (I don't own a PC).

Following is the "theory".
Courtesy of David, K2LMG

/*

The world is divided into fields. Fields are divided up into squares. Squares are divided into sub-squares.

Each field is 10 degrees N-S by 20 degrees E-W. Each field is indicated by a two (capital) letter identifier. The South-Western most field is AA. This field is actually a triangle, and it is located from the South Pole to 80 degrees South, and from 180 degrees West to 160 degrees west. The field directly north of AA is AB. The field directly north of AB is AC. The field directly east of AA is BA.

Each field has 100 squares. Each square is 1 degree N-S by 2 degrees E-W. Each square (inside it's respective field) is indicated by a 2 number identifier. The South-Western most square in a field is 00. The square just north of 00 is 01. The square just north of 01 is 02. The square just east of 00 is 10. The North-Eastern most square in a field is 99.

Each square has 576 sub-squares. Each sub-square is 2.5' N-S by 5' E-W. Each sub-square (inside it's respective field) is indicated by a two (lower-case) letter identifier. There are 24 x 24 sub-squares in each square. The South-Western most sub-square in a square is "aa". The sub-square just north of this is "ab". The sub-square just east of "aa" is "ba".

E0

EN73

EN72ev

DN EN62 EN72du EN72eu EN72fu EN82 FN

EN72et

EN71

EM

*/

--

Dave Pascoe KM3T
Internet: pascoe@rocky.tntn.gtegsc.com

(508) 880-2297 or (617) 455-5704

Date: Wed, 16 Jun 1993 17:41:24 GMT
From: sdd.hp.com!nigel.msen.com!ilium!rphroy!mloeff01!jzito01!
hallocha@decwrl.dec.com
Subject: Accessing Callsign Server
To: info-hams@ucsd.edu

How does one access the call sign server that some complain is out of date??

Drew (WB8CKE)

Date: 16 Jun 93 17:26:22 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!math.ohio-state.edu!
howland.reston.ans.net!newsserver.jvnc.net!netnews.upenn.edu!mipg.upenn.edu!
yee@network.UCSD.EDU
Subject: Advice needed on an ICOM32AT
To: info-hams@ucsd.edu

I just bought an old ICOM 32AT. Along with the rapid charger (BC-35 ?),
a 13.2V ICOM battery (BP7) and a after market 13.2V battery, I paid \$280.

It turns out that there are two minor problems with the rig and only on
two meters. First of all, there is a high pitched whine on the audio and
while warming up, the audio is highly distorted (especially in the region of
146.68MHz). After warming up with several minutes of transmit, the audio
is much better but the whine remains. The 440 band is fine. Transmit signal
reports on both bands are fine.

I have called ICOM up and they said it problems are probably due to a bad
crystal in the 2nd IF frequency and a bad cap in the PL. They said the cost
would be circa \$90. I have looked at the rig and I do not trust my soldering
skills to make the repair myself.

I may have the choice to return the rig (not sure yet). Should I return the
rig or invest an additional \$100? If I am unable to return the rig, I figure
on spending the \$100 unless someone has a better solution.

--
411 Blockley Hall | Conway Yee, N2JWQ
418 Service Drive | yee@ming.mipg.upenn.edu (preferred)
Philadelphia, PA 19104 | cy5@cunixa.cc.columbia.edu (forwarded to above)
(215) 662-6780 |

Date: 16 Jun 93 16:39:56 GMT
From: ogicse!emory!kd4nc!ke4zv!gary@network.UCSD.EDU
Subject: AM Broadcast Radio Antenna
To: info-hams@ucsd.edu

In article <C8pLM4.LpB@hpbmqoea.sqf.hp.com> dstock@hpbmqoea.sqf.hp.com (David Stockton) writes:

> It may be that the nature of the organisation of US broadcasting
> makes this a European curiosity.

Yes that's the problem. We don't really have radio networks anymore in this country, other than some ad hoc things built around certain programs. Each station is programmed locally for it's local market. Local programming generates the most revenue. They may pick up some satellite programming, but even that often operates on tape delay. The days of full time national networks are long gone in radio, and are rapidly fading in broadcast TV. We have public TV and NPR, but they're sad things that don't appeal to wide audiences.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 16 Jun 93 17:07:21 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!gatech!pitt.edu!
dsinc!netnews.upenn.edu!gopher.cs.uofs.edu!prijat.cs.uofs.edu!
bill@network.UCSD.EDU
Subject: Apollo & hams (was Re: "If you believe they put a man on the moon")
To: info-hams@ucsd.edu

In article <1993Jun16.101626.2743@sni.co.uk>, lehane@sni.co.uk (Lehane Kellet) writes:

|>
|> They did, although I am unable to give the callsigns. My recollection is
|> that Pat Hawker G3VA reported this in Wireless World (a UK publication) in
|> the early to Mid 70's. It was almost certainly reported elsewhere.

Do you remember which issue?? I'll go look for it when I get home!!

bill KB3YV

--

Bill Gunshannon | "There are no evil thoughts, Mr. Reardon" Francisco
bill@cs.uofs.edu | said softly, "except one; the refusal to think."
University of Scranton |
Scranton, Pennsylvania | #include <std disclaimer.h>

Date: 16 Jun 1993 17:11:18 GMT
From: cthomas@athena.mit.edu
Subject: Broadcast IDs
To: info-hams@ucsd.edu

In article <HIDEG.93Jun15171803@spsd630a.erim.org> hideg@spsd630a.erim.org (Steve Hideg) writes:

>Does anyone out there know the FCC rules governing the identification of
>commercial broadcast radio stations?

>

>There is a new station in Detroit that NEVER gives its callsign.

>

That's okay. It'll only cost'em \$8000 to have that privilege.

The reg. is once per hour. And the format is: freq, call, loc.
There are certain variants on that. Examples of an ID are:

97.7 KGCI-FM Grundy Center
or if there are two transmitters:
1190 KDAO Marshalltown and 99.5 KDAO-FM, Eldora.

The town has to be where the transmitter is. (Or control studio,
don't remember which.) In case this is a small town, you'll hear
something like:
97.7 KGCI-FM Grundy Center, Cedar Falls and Waterloo. Still the basic
legal ID, but w/ extra towns added on so people actually recognize what
state you're in.

-----+-----+-----
Michael T. Ford | cthomas@athena.mit.edu | This
473 Memorial Dr | WZ0C @ K1UGM.MA.USA | space
Cambridge, MA | CompuServe: 70400,1420 | under
02139-4319 | | construction...
-----+-----+-----

Date: 16 Jun 93 19:41:38 GMT
From: news-mail-gateway@ucsd.edu

Subject: Entry Level HF Rigs
To: info-hams@ucsd.edu

I recently bought a Ten-Tec Argonaut II and have been well satisfied with it. The price is a bit more than for the IC-728, IC-729, FT-745, etc. Of course the Argonaut II is a QRP rig, but for just a little more, there is the Delta II. These rigs had some problems when they first came out, but it looks like the problems have been fixed and (in the case of the Argonaut II) such Delta II features as computer interface circuitry (you still need the \$45 level converter) and a speaker jack have been added.

Dave Williams, NN2D

Date: 16 Jun 93 10:58:43 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: How do you view a .TAR file
To: info-hams@ucsd.edu

In article <9306151259.AA02473@NADC.NADC.NAVY.MIL>, skitch@nadc.navy.mil (M. Squicciarini) wrote:

>
> A few weeks ago I downloaded CHURCVR.TAR. This is a schematics for
> a receiver to copy CHU time signals. My problem is how do I
> view the file on a DOS system??

Marty-

I understand that the ".tar" files are Unix "tape archives". You need a utility program to un-archive them. If you have a friend with a Unix machine, it would be easy to do.

I'm not familiar with the MS-DOS utilities, since I'm operating a Macintosh. There is at least one Mac utility that recovers .tar files (MacTar?). The program I usually use, is Stuffit Deluxe, which has a .tar "translator".

Where is CHURCVR.TAR located? If I could get a copy and translate it, could I upload it to nadc.navy.mil?

After you get the file translated, you will still be faced with determining what graphics format the resulting file is in.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 16 Jun 93 19:35:10 GMT
From: news-mail-gateway@ucsd.edu
Subject: Info-Hams Digest V93 #727
To: info-hams@ucsd.edu

In Info-Hams Digest Volume 93 : Issue 727, Faith M. Senie says

>There was one station on 432 in FN22 (WA2WHD I think), waaaaay
>down in the noise, who absolutely could not get the last letter
>of my callsign. I had the volume on the rig up at maximum so I
>could hear them, and I was screaming "Tango! Tango! Tango!" into
>the mic. No luck.

Why didn't you send your call sign in morse? (Oh, God. What did
I start?) ;-)

73 Fred WH6ME (No-code Tech)

Date: 16 Jun 93 18:55:38 GMT
From: news-mail-gateway@ucsd.edu
Subject: Naval Observatory (was WWV on telephone)
To: info-hams@ucsd.edu

> >Someone in the recent past asked if time sources like WWV
> >was available on a telephone dial-in basis.
>
> Also, you can dial Ft. Collins directly (303)499-7111
> ^^^^^^^^^^^^^^
> TOLL CALL..

If you're on the east coast, it might be a bit cheaper to call the Naval
Observatory in Washington, DC, for the time. That number is 202-653-1800.

If you have two telephones lines in the same room, you might even want to
call them both and see if you can detect any time delay differences with a
phone at each ear. Of course, the results could depend on whether your
brain is perfectly centered. (Also make sure you have equal length handset
cords on the two phones!) Oops. Forgot. They're in different time zones,
so it won't work. Forget everything I said.

steve - W3GRG
mosier@iris.uncg.edu dit dit

Date: Wed, 16 Jun 93 16:22:24 GMT
From: agate!headwall.Stanford.EDU!nntp.Stanford.EDU!umunhum!paulf@ames.arpa
Subject: Need tubes for Nazi field radio
To: info-hams@ucsd.edu

In article <1vluv3INN2kn@quasar.genrad.com> tgs@genrad.com (Trevor G. Smith) writes:

>In these days of 'politcal correctness' I really must take you to task for
>describing your wireless as a "WWII Nazi Field Radio".

Actually, this **is** the politically correct usage. The idea is that the Allies fought against the Nazis, not the Germans. The movie *_Patton_*, for example, was dubbed in this manner before being shown on broadcast TV.

--
-=Paul Flaherty, N9FZX | "The National Anthem has become The Whine."
->paulf@Stanford.EDU | -- Charles Sykes, *_A Nation of Victims_*

Date: Wed, 16 Jun 1993 19:21:44 GMT
From: hobbes!davidv.sco.COM!davidv@uunet.uu.net
Subject: only *5* weeks to get license
To: info-hams@ucsd.edu

i took the test on May 8th, the license was issued on June 8th,
and arrived in my mailbox on June 12th. i was very impressed.

on the other hand, some friends who took the tech test the weekend
before me, just got their's yesterday (the 15th). so for them it
was 6.5 weeks.

--
"The way to a woman's heart is through the back, down a bit and to the left"
David Vangerov, Sr. Systems Analyst - Internal Support, Information Services
Voice: 408-429-4512 | Email: ...!uunet!sco!davidv | Your favorite disclaimer
Fax: 408-427-5460 | davidv@sco.com | of liability here.

Date: Wed, 16 Jun 1993 18:21:05 GMT
From: pa.dec.com!e2big.mko.dec.com!peavax.mlo.dec.com!usenet@decwrl.dec.com
Subject: Surplus in Seattle
To: info-hams@ucsd.edu

In article <C8Mq8K.FrF@rahul.net>, davidj@rahul.net (David Josephson) says:

>
>In <9306140816.aa08299@FSAC3.PICA.ARMY.MIL> cfishman@pica.army.mil (Clark Fishman, FSAC-FCD) writes:
>
>>I am going to Seattle and area for a while.
>
>>Does anyone in net land know of ham and surplus
>>electronic stores in that area???
>
>
>There are a few strictly ham and surplus stores. But
>there is one that you must not miss, Boeing Surplus in
>Kent. Go midweek, plan to spend half a day there. Haggle.
>
>--
>David Josephson <david@josephson.com>

There is also Vetco electronics in on 20th st in Bellevue, Wa on the eastside of Lake Washington. (Take S.R. 520 over the lake into bellevue, get off @ 148th st, go two blocks, take a right on 20th st and drive 1 mile. Vetco is on the left, next to active electronics)

Jeff

Jeff McLeman - KD1IT kd1it @ kd1it.ampr.org
Redmond, Wa. kd1it @ n7duo.wa.usa.na
 mcleman@zso.dec.com

"Opinions expressed here are mine, and not that of Digital Equip. Corp."

Date: 16 Jun 1993 17:42:31 GMT
From: nothing.ucsd.edu!brian@network.UCSD.EDU
To: info-hams@ucsd.edu

References <123@sunriv.UUCP>, <m1f1tmINNrn3@exodus.Eng.Sun.COM>,
<2332@indep1.UUCP>
Subject : Re: Ham radio in TV shows

The key to enjoying a movie, or play, or book, or even (gasp) television show is "the willing suspension of disbelief".

If you can't suspend your disbelief and enjoy the film, et al, then in

some measure, the author/producer/writer/directory/cinematographer has failed. And so have you.

There is a time and a place for belief, and a time and a place for rationalism. Few of us are wholly rational at all times - for example, religious scientists, mothers who believe their children to be the most beautiful/brilliant in the world, etc.

The sign of a real techno-nurd is one who lets these minor inconsistencies BOTHER him. It's not important. Relax and enjoy the show.

Does it really matter that the control buttons in Dark Star were really backlit ice-cube trays with JuJuBees glued on them?

- Brian

"How tall was King Kong? Three foot six."

- The Stunt Man

Date: 16 Jun 1993 17:29:51 GMT

From: nothing.ucsd.edu!brian@network.UCSD.EDU

To: info-hams@ucsd.edu

References <1993Jun15.141003.22243@ke4zv.uucp>, <1v171pINN79h@network.ucsd.edu>, <1993Jun16.094748.26829@ke4zv.uucp>

Subject : Re: Digital microwave project

gary@ke4zv.UUCP (Gary Coffman) writes:

>brian@nothing.ucsd.edu (Brian Kantor) writes:

>>Luckily, however, the rule of law is tempered to justice by reason.

>

>Well you'd hope so Brian. However, we used to play music over the

>ID slide during the warm up period for our transmitter at sign on.

>We were cited. The commission said we weren't licensed as a radio

>station and couldn't play music without accompanying *moving*

>video. So I wouldn't be so sure that they use good judgement

>in interpreting the rules.

I suspect you didn't challenge the citation - for most commercial operations, it isn't worth it for small things like that.

But I know that I'd definitely take any such citation up the ladder of review and hearing if I thought the FCC was being arbitrary or capricious, as is my right and my duty.

I do know of a few people who have indeed done just that - instead of just sending in the fine (excuse me, "monetary forfeiture"), and won.

In any case where the alleged "offense" is based on an unreasonable interpretation of the FCC regs, I'd think it would very much be worthwhile to consider challenging it.

This isn't directly relevant, Gary, but was the citing FCC officer the same one who is rumoured to have cited his wife for failing to identify, and was responsible for the infamous "900 number packet message" debacle? I ask because it's about the right part of the country....

- Brian

Date: Wed, 16 Jun 1993 17:42:37 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!noc.near.net!
squam.banyan.com!banyan.com!dts@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1993Jun15.173849.27558@ll.mit.edu>, <1v199m\$9ak@transfer.stratus.com>,
<1993Jun15.213451.4185@ll.mit.edu>
Subject : Re: A little radio FUN!

In article <1993Jun15.213451.4185@ll.mit.edu>, wjc@ll.mit.edu (Bill Chiarchiaro) writes:

|>
|> In article <1v199m\$9ak@transfer.stratus.com>, fms@sw.stratus.com (Faith Senie) writes:
|> |>
|> |> ...stuff deleted...
|> |>
|> |> Embarrassingly enough, we forgot to throw the key into the box of goodies
|> |> we brought up onto the mountain with us! And mid-QSO isn't necessarily the
|> |> time to go about home-brewing one, either... :-)
|> |>
|> |> Next time, the key goes with us!
|> |>
|> |> ...stuff deleted...
|> |>
|>
|> Well, if you feel like improvising, and your rig can transmit either
|> FM or full-carrier AM, there is the method of tapping out code on the
|> microphone PTT!
|>
|> Gee, I wonder if whistling a pure tone into the mike on SSB would
|> be effective. I might have to try that sometime!

Well, in this case, the rig was an Icom IC-402. You get SSB and CW. Tuning is a VXO (and pretty darn touchy on the 402 at that). Also on the hill we had an

IC-202 (the 202 is 2 meters, the 402 is 432 MHz). These are old radios but work quite nicely. We do have Icom all-mode bases for these bands, but the little rigs are quick and easy to throw in the car, and are nice QRP gear.

Faith was trying to work this guy on 10 watts (the IC-402 has a matching brick to take it from 3 watts to 10) and using a vertical on the truck which normally is hooked to the FT-5200 FM mobile. We did this all at the spur of the moment (go to the hilltop) so we improvised.

One additional note, the FN22 station had originally called me right after I had worked someone else on 432. They worked me with no problem before Faith took the mic and tried the contact. My voice seems to do better on VHF/UHF than hers.

I'm starting to dream up interesting ways to construct a full station for VHF contest Rover operation... I think that's the best way to contest this stuff that I've seen...

|>
|>
|> 73
|>
|> Bill Chiarchiaro
|> wjc@ll.mit.edu

--

Daniel Senie Internet: dts@banyan.com
Banyan Systems, Inc. Compuserve: 74176,1347
508-898-1188 Packet Radio: N1JEB@WA1PHY.MA

Date: 16 Jun 93 18:23:40 GMT
From: ogicse!emory!athena!aisun3.ai.uga.edu!mcovingt@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1v17lpINN79h@network.ucsd.edu>, <1993Jun16.094748.26829@ke4zv.uucp>,
<1vnlafINNabc@network.ucsd.edu>
Subject : Re: Digital microwave project

>gary@ke4zv.UUCP (Gary Coffman) writes:
>>Well you'd hope so Brian. However, we used to play music over the
>>ID slide during the warm up period for our transmitter at sign on.
>>We were cited. The commission said we weren't licensed as a radio
>>station and couldn't play music without accompanying *moving*
>>video. So I wouldn't be so sure that they use good judgement
>>in interpreting the rules.

There is an ongoing muddle arising from the fact that transmission of music (as audio) is forbidden, but transmission of video programs with incidental music is permitted.

If ultimate intent is to prohibit "broadcasting of entertainment to the general public" then the FCC needs to address the fact that some of these video programs are no less "entertaining" than music would be.

I would prefer seeing them drop the ban on music in bands where fast-scan ATV is permitted (and where there is little need to conserve spectrum).

--

```
:- Michael A. Covington, Associate Research Scientist      :      *****
:- Artificial Intelligence Programs      mcovingt@ai.uga.edu :      *****
:- The University of Georgia            phone 706 542-0358 :      * * *
:- Athens, Georgia 30602-7415 U.S.A.    amateur radio N4TMI : ** *** ** <><
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End of Info-Hams Digest V93 #737
